

## **ABSTRACT**

This disclosure describes unique chemical structures for use as solid or concentrated chemical precursors to the production of peroxy acids when combined with hydrogen peroxide or a hydrogen peroxide precursor such as percarbonates or perborates. Peroxy acids (peracids) such as peroxyacetic acid are used currently to disinfect medical equipment such as endoscopes and related items. It has been discovered that these structures are not currently listed in Chemical Abstracts and do not appear to be the subject of any prior art related to this or any other similar application. The specification for this claim includes chemical structures for each claimed precursor as well as means of synthesis that could be carried out by any skilled synthetic organic chemist. Practical uses for this invention include several antimicrobial applications of which at least one example is included.